

ABSTRACT OF THE DISCLOSURE

When a transmitting oscillator is built in a communication semiconductor integrated circuit device like a high-frequency IC constituting a wireless communication system, the system prevents degradation of the accuracy of control on the output power of a power amplifier due to noise jumped from an output pin of the transmitting oscillator to an input pin for a detected signal (feedback signal) of an output level of the power amplifier. The transmitting oscillator is built in the high-frequency IC. The detected signal of the output level of the power amplifier, which is detected by a coupler, is attenuated to a level slightly higher than the level of noise jumped from the output pin of the transmitting oscillator to the input pin for a feedback signal of an amplitude control loop, which in turn is inputted to the feedback signal input pin of the high-frequency IC.

DRAWINGS

FIGURE 1

110 ... PHASE DIVIDING CIRCUIT, 140 ... PHASE DETECTION
CIRCUIT, 150 ... AMPLITUDE DETECTION CIRCUIT, 160 ... GAIN
CONTROL CIRCUIT, 170 ... REGISTER, 180 ... CONTROL CIRCUIT,
300 ... BASEBAND IC